

Product datasheet for **RG218147**

PDE8B (NM_001029853) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE8B (NM_001029853) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDE8B
Synonyms:	ADSD; PPNAD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG218147 representing NM_001029853
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTGCGCCCCAGCATCCATGTCTCGCAGAGCGGCGTGATCTACTGCCGGGACTCGGACGAGTCCA
 GCTCGCCCCGCCAGACCACCAGCGTGTGCGAGGGCCCGGCGGCACCCCTGCCCGGCTCTTCGTCCAGAC
 CGACGCCGCCAGCCATCCCCCGAGCCGCGCGTCGGGACCCCCAGCGTAGCCCGCGTCCGCAGGGCC
 CGCACCAGAGCTGGGCAGCGGTAGCAGCGCGGGTCCGAGCCCCGCGCGACCACCAGCAGGGGCCGGA
 GGCGCCACTGCTGCAGCAGCGCCGAGGCCGAGACTCAGACCTGCTACACCAGCGTGAAGTTTTGCTGAT
 CTTTGCAAAGGAAGATAGTCAGAGCGATGGCTTCTGGTGGCCTGCGACAGAGCTGGTTATAGATGCAAT
 ATTGCTCGGACTCCAGAGTCAGCCCTTGAATGCTTTCTTGATAAGCATCATGAAATTATTGTAATTGATC
 ATAGACAAACTCAGAACTTCGATGCAGAAGCAGTGTGCAGGTGATCCGGGCCACAAATCCCTCCGAGCA
 CACGGTGATCCTCGCAGTGGTTTCGCGAGTATCGGATGACCATGAAGAGGCGTCAGTCTTCTCTTCTC
 CACGCAGGCTTCAACAGGAGATTTATGGAGAATAGCAGCATAATTGCTTGTATAATGAAGTATTCAA
 TAGAACATGGGGAAGTTCGCTCCAGTTCAAATACGGGCTGTAAATTCAGTGTTTACAGCATTAGATCA
 CTGTATGAAGCCATAGAAATAACAAGCGATGACCACGTGATTAGTATGTCAACCCAGCCTTCGAAAGG
 ATGATGGGCTACCACAAAGGTGAGCTCCTGGGAAAAGAACTCGCTGATCTGCCAAAAGCGATAAGAACC
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 ATCGTGATTCAGGAGACAATTCAGACAGAGCCTCATTATTGATATAAAGAAGGAGGAAAGAGTTC
 CATTGACGTGAAATCGATATCATCTCGAGGAGTGCACCAAGCCTGCAGAATCGTCGCTATCCGTCC
 ATGGCGAGGATCCACTCCATGACCATCGAGGCTCCCATCACAAAGGTTATAAATAAATCAATGCAGCCC
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 GACGGCTTGAGAAGACTGTCAGGAAACGAGTATGTGTTTACTAAGAATGTGCACCAGAGTACAGTCACC
 TTGCAATGCCAATAACCATCAATGATGTCCCCCTTGATCTCTCAATTACTTGATAATGAGGAGAGTTG
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 TTCTCTCGGTTTGGAGTATGTGAGTTTTTAACTGTTCTGAAACCACTCTTCGGGCTGGTTCCAAGTGA
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 CGTTTTCTTTCTTGAAAGGAAAGAGTAAAGGGAAGCCTCGATCAGTTGGATGAGGTGGCAGCCCTCATT
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 TTGCTGTGCTCTACAATGACACTGCTGTCTGGAGAGTACCACACCCGCCCTGGCCTTCCAGCTCACGGT
 CAAGGACACCAATGCAACATTTTCAAGAATATTGACAGGAACCATATCGAACGCTGCGCCAGGCTATT
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 ACAAGCCAATGGCAGCTGAGATTGAAGGCAGGACTGTGAATGCAACCTGCTGGGAAGAAGTCCCTGA
 AAACCAATCCTGATCAAACGCATGATGATTAAGTGTGCTGACGTGGCCAACCCATGCCGCCCTTGGAC
 CTGTGCATTGAATGGGCTGGGAGGATCTCTGAGGAGTATTTTGCACAGACTGATGAAGAGAAGAGACAGG
 GACTACCTGTGGTATGCCAGTGTGACCGGAATACCTGTAGCATCCCCAAGTCTCAGATCTTTTCAT
 TGACTACTTATAACAGACATGTTTGTGCTTGGGATGCCTTTGCACATCTGCCAGCCCTGATGCAACAT
 TTGGCTGACAACACTACAAACACTGGAAGACACTAGATGACCTAAAGTGCAAAAGTTTGGAGCTTCCATCTG
 ACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218147 representing NM_001029853
 Red=Cloning site Green=Tags(s)

MGCAPSIHVSQSGVIYCRDSESSPRQTTSVSQGPAAPLPGLFVQTDAAAIPPSRASGPPSVARVRRARTELGGSSAGSAAPAATTSRGRRRRHCCSSAEATQTCYTSVKVLLIFAKEDSQDGFWWACDRAGYRCNIARTPESALECFLDKHHEIIVIDHRQTQNFDAEAVCRSIRATNPSEHTVILAVVSRVSDDHHEEASVLP LLHAGFNRRFMENSSIIACYNELIQIEHGEVRSQFKLRACNSVFTALDHCEAIEITSDDHVIQYVNPAPERMMGYHKGELLGKELADLPKSDKNRADLLDTINTCIKKGKEWQGVVYARRKSGDSIQQHVKITPVIQGGKIRHFVSLKCLCTDNNKQIHKIHRDSDNSQTEPHSFRYKNNRRKESIDVKSISSRGSDAPSLQNNRYPSMARIHSMTEAPITKVINIINAAQENSPVTVAEALDRVLEILRTTELYSPQLGKTKDEDPHTSDLVGLMTDGLRRLSGNEYVFTKNVHQSHSLAMPITINDVPPCISQLLDNEESWDFNIFELEAITHKRPLVYLGLKVF SRFGVCEFLNCSETTLRAWFQVIEANYHSSNAYHNSTHAADV LHATAFFLGKERVKGSLDQLDEVAALI AATVHDVDHPGRTNSFLCNAGSELAVLYNDTAVLESHHTALAFQLTVKDKCNIFKNIDRNHYRTLROAI DMVLATEMTKHFVHNKFNVSINKPMAAEIEGSDCECNPAGKNFPENQILIKRMMIKCADVANPCRPLD LCIEWAGRISEEYFAQTDEEKRQLPVVMPVDFRNTCSIPKSQISFIDYFITDMFDAWDAFAHLPALMQH LADNYKHWKTLDDLKCKSLRLPDS

TRTRPLE - GFP Tag - V

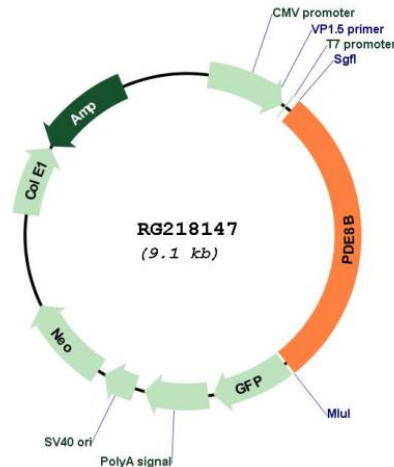
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001029853

ORF Size: 2595 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001029853.1](#), [NP_001025024.1](#)

RefSeq Size: 3510 bp

RefSeq ORF: 2598 bp

Locus ID: 8622

UniProt ID: [O95263](#)

Cytogenetics:	5q13.3
Protein Families:	Druggable Genome
Protein Pathways:	Progesterone-mediated oocyte maturation, Purine metabolism
Gene Summary:	The protein encoded by this gene is a cyclic nucleotide phosphodiesterase (PDE) that catalyzes the hydrolysis of the second messenger cAMP. The encoded protein, which does not hydrolyze cGMP, is resistant to several PDE inhibitors. Defects in this gene are a cause of autosomal dominant striatal degeneration (ADSD). Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jul 2010]